

City of Newport Beach

Water Quality/Coastal Tidelands Committee Minutes

Date: August 14, 2014

Time: 3:00 p.m.

Location: Newport Coast Conference Room, 2nd Floor, Bay E

1. Welcome/Self Introductions

Committee Members present:

Chairwoman/Council Member Nancy Gardner

Dennis Baker

Carl Cassidy

Lou Denger

Tom Houston

Mike Melby

Guests present:

Jim Mosher, resident

Nancy and Jack Skinner, S.P.O.N.

Monica Mazur, resident

Philip Bettencourt, Bettencourt & Associates

Jeff Coffman, Clean Green Technology

Darrel Ferguson, Surfrider Foundation

Billy Dutton, Help Your Harbor

Bill Zeller, Help Your Harbor

Larry Honeybourne, Orange County Healthcare Agency

Duffy Duffield, resident

Staff present:

Mark Vukojevic, Deputy Public Work Director/City Engineer

John Kappeler, Water Quality Manager

Chris Dickel, Public Works Intern

Shari Rooks, Public Works Specialist

The agenda for the Water Quality/Coastal Tidelands Committee was posted at 12:48 pm on August 7, 2014, in the binder located in the entrance of the Council Chambers at 100 Civic Center Drive.

2. Approval of Previous Meeting's Minutes

The July 10th meeting minutes were approved with (2) minor corrections.

3. Old Business

a. Bay and Ocean Bacteriological Test Results

Monica Mazur reviewed recent water quality test results within Newport Bay and along the ocean shoreline.

- Of note, there was a sewage spill at the Coast Guard cutter base on August 13, 2014.

b. 2014 Committee Goals and Priorities

Nancy Gardner suggested that one of the Committee's goals for next year should be pushing for the implementation of tiered water rates as the City will have the technology to do this in the near future.

- An item to be placed on a future agenda should be an update how diversified the City is and describe our various water sources and conservation programs.
- **John Kappeler** advised that the catch basin cleaning agenda item is scheduled for the second City Council meeting in October.
- **Dennis Baker** asked for verification that the Avocado Avenue median (south of Coast Highway) was on the list for turf replacement. He also suggested that there be some incentives offered to Home Owners Associations to begin replacing the turf in the parkways within their communities.
- **Jeff Coffman** said the City of Ventura has been permitting curb cuts and bio-swales in parkways. Please see attached link from The Surfrider Foundation's website for more information on this program. ["Taking Ocean Friendly Gardens to the Streets: Parkway Curb Cut & Bio-Swale."](#)

4. New Business

a. Assembly Bill 411- Larry Honeybourne gave the Committee a review of the statute and the water quality testing and notification requirements contained in AB411. (See attached presentation).

- The County of Orange Health Care Agency (OCHCA) is an environmental regulatory agency that monitors our beaches and puts out public notifications.
- AB411 was chaptered into law in 1997 and requires uniform and consistent bacteriological water quality monitoring for all marine recreational waters along the California coastline. Regulations began in July of 1999 and required weekly bacteriological water quality monitoring.
- AB411 only applies to water from beaches with at least 50,000 visitors per year and beaches adjacent to flowing storm drains.
- The water is analyzed for three indicator bacteria – enterococcus, total coliform and fecal coliform.
- The Environmental Protection Agency's "Clean Water Act" (CWA) established the basic structure for regulating discharges of pollutants into the waters of the United States in 1972. In 2012 the EPA adopted a new "Water Quality Criteria" and in December of last year they adopted the *Guidance Document* for the new criteria they had just developed. The new criteria looked very similar to the 1986 criteria.
- SB 1395 was introduced this year and this bill is currently sitting in the legislature. It is calling for the use of rapid test methods of beach water for public notification purposes. It may currently be on the Governor's desk for signature.
- Heal the Bay puts together an annual "Beach Report Card" and the Natural Resources Defense Council (NRDC) uses Beach Action Values (BAV) to put together a "Testing the Waters" report.
- OCHCA is currently facing a dilemma trying to determine how they can comply with the NRDC's requirement they use BAV to be able to continue to get \$500,000 in funds from the EPA without having to implement postings at BAV of 60 or 70. The OCHCA is statutorily obligated to enforce AB411 standards on California Health and Safety Codes and they can't use Beach Action Values because they are not in statute.

- EPA would like for all the states to only use the enterococcus indicator and we currently use all three indicators - this is another conflict.
- Stanford has a research grant from the SWRCB to look at whether or not we can predict what the water quality is going to be tomorrow. Stanford is working with UCLA, Heal the Bay and a number of others. The study looks at sun, wind, current, urban runoff and basic history and puts the findings into statistical models. The first phase has been done and it is looking very promising. They are going to move forward with the next phase.
- San Diego's Wet Weather Epidemiology Study with surfers this year could not be done because it didn't rain, so they will look at doing it next year.
- For beach information visit the website: www.ocbeachinfo.com

b. "Help Your Harbor" – Billy Dutton gave a presentation and update on the program. (See attached screen shots of the "Help Your Harbor" presentation) and see attached link to website for video of ["The Plastic Pollution Found Off Our Coast"](#)).

- Started with a two-week awareness cruise down the coast from Santa Barbara to San Diego in a Duffy boat collecting trash.
- Goal is to make a difference to our harbor community and the world by cleaning the harbor and getting out on the water and making the harbor a cleaner place, one scoop at a time!
- Volunteer clean-up events take place on the first Saturday of the month and thus far there have been seven events and over 1,000 lbs. have been removed to date.
- Averaging 27 volunteers per event and partners include Newport Aquatic Center, Newport Beach Rotary, Duffy Boats, Surfrider Foundation, Californians Against Waste, Balboa Bay Club and Riding Currents.
- **Dennis Baker** suggested Help Your Harbor may want to visit the City Council meetings of each of the watershed cities and ask to be placed on a future agenda for an opportunity to make their community aware of the program. He also suggested contacting Howard Cork, President of the Newport Bay Conservancy (NBC) because they are the non-profit agency in the upper bay and they have a formal relationship between the NBC and California Fish & Wildlife and also the County of Orange.
- For more information and upcoming clean-up dates please visit the website at: www.helpyourharbor.com

5. Public Comments on Non-Agenda Items

- **Darrel Ferguson** reported that cigarette butts have been accumulating along the seawall, sidewalk and in the planters in the McFadden Square area adjacent to Newport Pier. He went to that site on 4 different occasions and noticed that the cigarette butts are being cleaned up, but there really isn't any container other than the planter for people to place their cigarette butts. He suggested the City consider providing some sort of receptacles in the McFadden Square area to mitigate the problem.
- **Phillip Bettencourt** advised the Committee that the University of Irvine (UCI) was recently recognized by the Sierra Club as among the top ten of the "greenest colleges" in the nation. He suggested that his Newport Banning Land Trust colleague, **Ms. Kate Klimow, (949-824-0061)** Assistant Vice Chancellor for

Community and Government Relations at UCI might be helpful in identifying UCI resources that might be of value to the Committee.
(See attached email).

6. Topics for Future Agendas

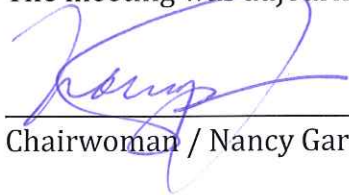
- (a) Bacteriological Dry-Weather Runoff Gutter Study (Phase III)
- (b) Prop 84 ASBS Grant Program
- (c) Senate Bill – SB 1447
- (d) Eelgrass Program
- (e) Trash Project for Storm Drains
- (f) Harbor Commission Copper Report
- (g) Orange County Coastal Regional Sediment Management Plan
- (h) Sediment Quality Objectives (SQOs)
- (i) NPDES Fifth Term Draft Permit
- (j) Adopting a Natural Source Exclusion
- (k) Banning Ranch
- (l) Grey Water

7. Set Next Meeting Date

The next meeting date was set for September 11, 2014 at 3 PM in the **Newport Coast Conference Room, Bay E, 2nd Floor.**

8. Adjournment

The meeting was adjourned at 4:43 pm.



Chairwoman / Nancy Gardner

Health Care Agency / Environmental Health Newport Bay Bacteriological Monitoring Program
Total Coliform (TC), Fecal Coliform, Enterococcus (ENT) Colony Forming Units / 100 ml Sample

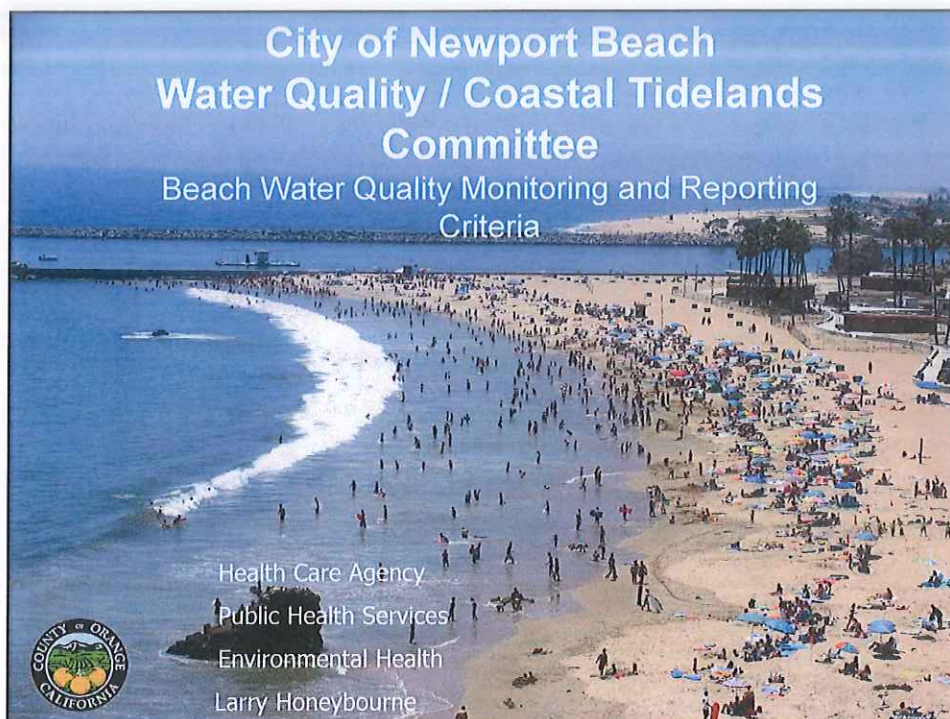
| STATION | Location Description | | 4/7/14 | 4/14/14 | 4/21/14 | 4/28/14 | 5/5/14 | 5/12/14 | 5/19/14 | 5/27/14 | 6/2/14 | 6/9/14 | 6/16/14 | 6/23/14 | 6/30/14 | 7/7/14 | 7/14/14 | 7/21/14 | 7/28/14 | 8/4/14 | 8/11/14 |
|-------------------------|--------------------------|-----|--------|---------|---------|---------|--------|---------|---------|---------|--------|--------|---------|---------|---------|--------|---------|---------|---------|--------|---------|
| NEWPORT BAY (Lower Bay) | | | | | | | | | | | | | | | | | | | | | |
| BNB09 | 43rd Street Beach | TC | 60 | 10 | 10 | 100 | >10 | <10 | >230 | 80 | >10 | <10 | <10 | >10 | >95 | >150 | >240 | >200 | >340 | >200 | <10 |
| | | FC | <10 | <10 | <10 | <10 | <10 | <10 | 20 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 20 | <10 | 10 | >10 | <10 |
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| BNB10 | 38th Street Beach | TC | <10 | <10 | <10 | >290 | >10 | <10 | 10 | 100 | >20 | <10 | <10 | >20 | >150 | >50 | >80 | >20 | >340 | >190 | >450 |
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| | | ENT | 10 | <2 | 6 | 120 | 4 | 4 | <2 | 2 | 20 | <2 | <2 | 6 | 10 | 36 | 10 | 2 | 6 | 34 | 2 |
| BNB11 | 33rd Street Channel | TC | 30 | >360 | 80 | >60 | >40 | 10 | >30 | <10 | <10 | <10 | 10 | >290 | >500 | >340 | >80 | >50 | >260 | >6400 | <10 |
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| BNB32 | Lido Yacht Club Beach | TC | <10 | >10 | <10 | 10 | >100 | 80 | <200 | <10 | <10 | 190 | >20 | <10 | >170 | >95 | <10 | <10 | >20 | <10 | >10 |
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| | | ENT | <2 | 2 | <2 | 2 | 8 | <2 | 2 | <2 | 4 | 20 | 34 | 2 | <2 | 46 | 2 | 4 | <2 | 8 | 82 |
| BNB07 | Via Genoa Beach | TC | 20 | 30 | <10 | 30 | <10 | 10 | <10 | 10 | <10 | 10 | 10 | <10 | >10 | 20 | 110 | 70 | 10 | >10 | <10 |
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| BNB35 | Newport Blvd. Bridge | TC | >6200 | 10 | >95 | >70 | 70 | 40 | >230 | >2050 | 120 | 1270 | >5400 | 20 | >15000 | >630 | >9400 | 9000 | 30 | >8600 | 30 |
| | | FC | 260 | <10 | 20 | 20 | <10 | <10 | <10 | <10 | 10 | 10 | 1080 | <10 | 6600 | 170 | 5800 | 6800 | 10 | 1130 | 10 |
| | | ENT | 251 | 2 | 20 | <2 | 6 | <2 | 20 | 52 | 4 | 8 | 800 | 2 | 180 | 180 | 2400 | 4 | 6 | 140 | <2 |
| BNB12 | Rhine Channel | TC | 20 | <10 | 10 | 30 | >60 | 60 | 20 | <10 | <10 | 110 | <200 | <10 | >200 | >40 | >260 | 30 | 30 | >150 | <10 |
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| BNB14 | 19th Street Beach | TC | 10 | <10 | <10 | 10 | <10 | <10 | <10 | >10 | 10 | <10 | 20 | <10 | 40 | 10 | <10 | >30 | 70 | 10 | >40 |
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| BNB15 | 15th Street Beach | TC | 30 | 10 | <10 | 20 | 80 | 10 | >180 | 10 | 150 | 10 | <10 | <10 | 40 | >110 | 10 | 50 | 210 | 40 | 60 |
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| BNB17 | 10th Street Beach | TC | <10 | <10 | <10 | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | >10 | 20 | <10 | >20 | 40 | 10 | 10 |
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| BNB18 | Alvarado/ Bay Isle Beach | TC | 100 | >10 | <10 | >50 | 20 | <10 | >60 | 10 | <10 | >10 | >10 | 30 | >30 | <200 | 40 | 10 | >20 | 10 | <10 |
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| BNB22 | N Street Beach | TC | 30 | <10 | <10 | <10 | 220 | <10 | 30 | <10 | <10 | 30 | 20 | <10 | 30 | >20 | <10 | <10 | >10 | 10 | <10 |
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| BNB31 | Garnet Avenue Beach | TC | >270 | <10 | 30 | 150 | >30 | <10 | >20 | >10 | >20 | >20 | >80 | >40 | >10 | >30 | >50 | >160 | 10 | 120 | >40 |
| | | FC | 110 | 20 | <10 | <10 | <10 | <10 | 40 | 10 | <10 | 10 | >70 | 10 | <10 | 10 | 30 | 80 | <10 | >70 | 30 |
| | | ENT | 6 | 10 | 130 | 6 | 58 | 28 | 120 | 4 | 10 | 94 | 26 | 4 | <2 | 4 | 8 | 10 | 4 | 120 | 42 |
| BNB03 | Ruby Avenue Beach | TC | <10 | 10 | 70 | 20 | 10 | 30 | >20 | <10 | >20 | <10 | 10 | <10 | <10 | >20 | >70 | 20 | >180 | <10 | 40 |
| | | FC | <10 | <10 | 10 | <10 | <10 | <10 | <10 | 10 | <10 | <10 | 30 | <10 | 20 | <10 | 30 | 10 | 20 | <10 | 30 |
| | | ENT | 6 | 2 | <2 | 2 | <2 | 6 | 2 | <2 | 2 | <2 | 4 | <2 | <2 | <2 | 8 | 2 | 76 | <2 | 6 |
| BNB20 | Sapphire Avenue Beach | TC | NS | 10 | >30 | >140 | >20 | >20 | >30 | >10 | >20 | >30 | 20 | >20 | >30 | >30 | >70 | <10 | <10 | 100 | >10 |
| | | FC | NS | 10 | 20 | <10 | 10 | 10 | 20 | <10 | 10 | <10 | 10 | <10 | 10 | <10 | 60 | <10 | <10 | 40 | <10 |
| | | ENT | NS | 4 | 66 | 24 | 265 | 8 | 350 | 2 | 8 | 8 | 4 | 4 | 2 | 20 | 20 | <2 | 4 | 6 | 8 |
| BNB34 | Grand Canal | TC | 100 | >20 | 320 | 10 | >130 | 30 | >20 | 100 | 80 | 40 | 80 | >30 | >30 | >110 | 230 | 50 | 240 | >390 | 30 |
| | | FC | 95 | <10 | 10 | <10 | 70 | <10 | <10 | <10 | 20 | <10 | 30 | <10 | 50 | 40 | 80 | <10 | 120 | 110 | 10 |
| | | ENT | 4 | 4 | <2 | <2 | 2 | <2 | 20 | <2 | 10 | <2 | 46 | 2 | <2 | 52 | 8 | 2 | 6 | 317 | <2 |
| BNB21 | Abalone Avenue Beach | TC | 10 | 10 | 20 | 40 | >200 | >120 | <10 | 210 | 10 | 80 | >30 | >40 | 10 | >30 | 30 | >380 | 10 | <10 | 10 |
| | | FC | <10 | <10 | 20 | <10 | 80 | 50 | <10 | 60 | 10 | 10 | 10 | 30 | <10 | >30 | <10 | 30 | <10 | 10 | <10 |
| | | ENT | 10 | <2 | 2 | 4 | 90 | 34 | 4 | 20 | <2 | 2 | 10 | 4 | 2 | 6 | <2 | 8 | 2 | <2 | 4 |
| BNB01 | Park Avenue Beach | TC | 10 | 80 | <10 | 10 | 10 | <10 | >10 | <10 | 10 | 80 | 10 | 10 | >20 | >240 | 20 | 40 | >20 | <10 | 10 |
| | | FC | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 40 | <10 | <10 | <10 |
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| BNB02 | Onyx Avenue Beach | TC | <10 | 10 | 80 | 30 | <10 | <10 | <10 | 20 | 10 | >40 | >20 | >20 | 30 | >10 | >230 | 10 | >100 | <10 | >40 |
| | | FC | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | <10 | <10 | 10 | <10 | <10 | 10 | 10 | <10 | <10 |
| | | ENT | <2 | <2 | 10 | <2 | 2 | <2 | 10 | 2 | 10 | <2 | 20 | <2 | 2 | <2 | 2 | 2 | 26 | 6 | <2 |
| BNB29 | Promontory Point Channel | TC | <10 | <10 | <10 | <10 | <10 | <10 | 10 | <10 | <10 | <10 | 10 | <10 | >10 | 30 | >40 | 20 | 10 | >40 | <10 |
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| | | ENT | 2 | <2 | 2 | <2 | 2 | <2 | 4 | <2 | <2 | <2 | <2 | <2 | 2 | <2 | 2 | <2 | 8 | <2 | <2 |
| BNB33 | Bayside Drive Beach | | | | | | | | | | | | | | | | | | | | |

Total Coliform (TC), Fecal Coliform (FC), Enterococcus (ENT) Colony Forming Units / 100 ml Sample

| STATION | Location Description | 4/7/14 | 4/14/14 | 4/21/14 | 4/28/14 | 5/5/14 | 5/12/14 | 5/19/14 | 5/27/14 | 6/2/14 | 6/9/14 | 6/16/14 | 6/23/14 | 6/30/14 | 7/7/14 | 7/14/14 | 7/21/14 | 7/28/14 | 8/4/14 | 8/11/14 |
|-------------------------|---------------------------------|--------|---------|---------|---------|--------|---------|---------|---------|--------|--------|---------|---------|---------|--------|---------|---------|---------|--------|---------|
| NEWPORT BAY (Upper Bay) | | | | | | | | | | | | | | | | | | | | |
| BNB24 | Newport Dunes - Middle | TC | 4400 | >320 | >170 | >740 | >20 | >95 | <10 | >280 | >30 | <10 | <10 | 80 | >80 | >120 | 30 | 5600 | 70 | >60 |
| | | FC | 390 | 230 | <10 | 640 | <10 | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 320 | <10 | <10 |
| | | ENT | 68 | 20 | 2 | 4 | <2 | 30 | 2 | 4 | 2 | 6 | <2 | <2 | 22 | <2 | 2 | 4 | 4 | <2 |
| BNB24 | Newport Dunes - West | TC | >390 | >50 | >190 | 3000 | 70 | >80 | >60 | <10 | <10 | <10 | <10 | 10 | >70 | >150 | 100 | >520 | >50 | >80 |
| | | FC | 190 | <10 | 20 | 120 | 10 | <10 | <10 | <10 | 10 | 50 | <10 | <10 | 50 | <10 | <10 | 20 | 10 | <10 |
| | | ENT | 110 | 46 | 20 | 6 | 2 | 6 | 10 | <2 | <2 | 10 | <2 | <2 | 10 | <2 | 6 | <2 | 6 | 2 |
| BNB24 | Newport Dunes - East | TC | >30 | >10 | >50 | >3000 | >70 | >10 | >10 | 2200 | >50 | 80 | >10 | >10 | >70 | >10 | >30 | >40 | <200 | >10 |
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| BNB24 | Newport Dunes - North | TC | 10 | >10 | >10 | >5600 | <10 | >10 | >200 | 20 | 8800 | >20 | >10 | >60 | >20 | >50 | <10 | >10 | >10 | >40 |
| | | FC | 20 | 10 | 10 | 930 | <10 | <10 | <10 | <10 | 440 | <10 | >10 | 50 | <10 | <10 | <10 | <10 | <10 | <10 |
| | | ENT | 48 | 6 | 2 | 6 | 26 | 8 | <2 | 4 | <2 | 8 | 2 | 10 | <2 | 2 | 4 | 10 | 4 | <2 |
| BNB25 | Vaughn's Launch | TC | NS | >10 | NS | >220 | >330 | >20 | NS | >20 | NS | NS | NS | NS | NS | NS | NS | NS | NS | >10 |
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| BNB26 | Ski Zone | TC | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | FC | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | ENT | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| BNB28 | North Star Beach | TC | >20 | 30 | >20 | 1000 | <10 | >10 | >10 | <10 | <10 | >10 | 50 | >20 | >40 | >70 | 20 | 20 | 10 | <10 |
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| BNB30 | De Anza | TC | 50 | 30 | <10 | >210 | 10 | 20 | >10 | <10 | >20 | >10 | 10 | 100 | >30 | >10 | 50 | >80 | <10 | >10 |
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| BNB05 | Bayshore Beach | TC | 50 | 30 | <10 | 50 | 30 | <10 | >30 | <10 | >20 | >40 | 30 | <10 | <10 | 40 | 10 | 10 | 40 | 50 |
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| | | ENT | 2 | 2 | 4 | <2 | 8 | <2 | 2 | 2 | 2 | 2 | 2 | <2 | <2 | <2 | 4 | <2 | <2 | <2 |
| NEWPORT BAY TRIBUTARIES | | | | | | | | | | | | | | | | | | | | |
| CNBSD | San Diego Creek - Campus Dr. | TC | >2600 | >1400 | >400 | >58000 | >1400 | >600 | >500 | >800 | >700 | >130 | >30 | <9 | 200 | >1000 | >910 | >300 | >290 | >1300 |
| | | FC | 30 | <10 | 60 | 2000 | 50 | 10 | 20 | <10 | <10 | 10 | <10 | <10 | 10 | >50 | 10 | >220 | 140 | >230 |
| | | ENT | 46 | 42 | 74 | 130 | >62 | 38 | 20 | 22 | 6 | 10 | 54 | 10 | 8 | 24 | 20 | 60 | 86 | 100 |
| CNBSA | Santa Ana Delhi Channel | TC | >26000 | >1400 | >400 | >97000 | >3300 | >4100 | >2700 | >240 | >33000 | >1400 | >3300 | >5000 | >6500 | >920 | >1800 | >15000 | >2900 | >4800 |
| | | FC | 170 | 20 | 60 | 970 | >50 | 730 | 60 | 80 | 2000 | 230 | >400 | >640 | 1070 | >270 | >270 | >370 | 710 | >670 |
| | | ENT | 170 | 120 | 88 | 130 | 170 | 228 | 230 | 150 | 160 | 400 | 303 | 800 | 800 | 140 | 238 | 96 | 150 | 150 |
| CNBBC | Big Canyon Creek | TC | >3200 | >460 | >100 | >440 | >460 | >760 | >650 | >4000 | >5200 | >970 | >5600 | >4400 | >7200 | >7000 | >5200 | >6600 | >5400 | >8800 |
| | | FC | 10 | 130 | 30 | 40 | 250 | 50 | 60 | 20 | 1040 | <10 | 340 | 130 | 60 | 240 | 130 | 330 | 95 | 310 |
| | | ENT | 150 | 190 | 70 | 62 | 120 | 76 | 66 | 76 | 1000 | 32 | 120 | 120 | 76 | 170 | 150 | 400 | 212 | 277 |
| CNBND | Backbay Drive Pipe | TC | >3000 | >40000 | >990 | >600 | >1100 | NS | >1000 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | FC | 210 | >40000 | 120 | 10 | <10 | NS | <10 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | ENT | 86 | 1000 | 289 | 1000 | 1000 | NS | 8600 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| NEWPORT SLOUGH | | | | | | | | | | | | | | | | | | | | |
| BNS01 | Lancaster Street & 61st Street | TC | <10 | >30 | >20 | >330 | >10 | >10 | >50 | >40 | >30 | <10 | >60 | >110 | >40 | >50 | 10 | >20 | 200 | >200 |
| | | FC | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 30 |
| | | ENT | <2 | 34 | 20 | 44 | <2 | 26 | <2 | 2 | 4 | 2 | 2 | 26 | 2 | 4 | 6 | <2 | 26 | 20 |
| BNS02 | Lancaster Street & Canal Street | TC | >30 | 10 | >10 | 10 | <10 | >30 | >30 | 10 | <10 | <10 | <10 | >340 | >80 | >70 | 60 | >10 | >70 | >40 |
| | | FC | 10 | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 160 | <10 | <10 | <10 | 10 | 80 | 10 |
| | | ENT | 4 | 6 | 6 | 10 | 4 | 20 | 8 | 8 | <2 | 2 | 6 | 120 | 20 | 68 | 20 | 46 | 26 | 24 |

Enterococcus (ENT) Colony Forming Units/100 ml Sample

[illegible]



History Recreational Water Quality Criteria

- 1960s – US Public Health Service - Fecal Coliforms
- 1960s – California – Total & Fecal Coliforms
- 1976 – USEPA - Fecal Coliforms
- 1980s - USEPA Epidemiological Studies
 - Marine Waters (Cabelli et al. 1983)
 - enterococci
 - Freshwater (Dufour, 1984)
 - enterococci, *E. coli*
- 1986 – USEPA Ambient Water Quality Criteria
- 1997 – California AB 411 Criteria
- 2012 – USEPA Ambient Water Quality Criteria
- 2013 – USEPA 2012 Ambient Water Quality Criteria Guidance

COUNTY OF ORANGE
CALIFORNIA

2

California Recreational Water Quality Criteria

- 1996 Santa Monica Bay Epidemiology Study (Haile et al.)
 - ~13,000 subjects
 - Conclusion – swimming at (or near) storm drains resulted in higher risk of GI and respiratory illness
- 1997 – Assembly Member Wayne (San Diego) introduces AB 411 legislation. Bill Chaptered into law October 1997
- 1999 – AB 411 Regulations adopted and implemented July, 1999
- 1999 – Huntington Beach closure
- 2014 – SB 1395 introduced. Allows the use of rapid test methods for beach public notification



3

AB 411 Components

- AB 411 regulations started on July 26, 1999
- Standards more protective of public health
- Uniform & consistent bacteriological water quality monitoring standards for all California marine recreational waters
- Weekly bacteriological water quality monitoring
- Analyze for three indicator bacteria – ent, TC, FC
- Geometric Means, Single Sample Maximum, TC/FC Ratio (7 total)
- April 1 through October 31 (yearly in O. C.)
- Beaches with at least 50,000 visitors per year
 - Beaches adjacent to flowing storm drains
 - Closure mandatory if sewage reaches ocean



Multi-Agency Collaboration

- County of Orange
 - Health Care Agency
 - Environmental Health
 - Public Health Lab



- OC Public Works
 - OC Watersheds

- Orange County Sanitation District

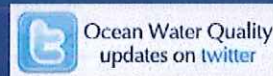


- South Orange County Wastewater Authority



Public Notification and Risk Communication

- Beach Signs
- Telephone Hotline
(714) 433-6400
- Website
www.ocbeachinfo.com
- Social Media
www.twitter.com/ocbeachinfo
- E-mail updates



HEALTH CARE AGENCY – PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH – WATER QUALITY

OCEAN RECREATIONAL WATER UPDATE

Time: 4:15 PM

Date: April 1, 2014

Closure and Posted Warning Status Report



Total Number of Beach Mile Days Posted for AB 411 Period (April 1 – October 31) 2000 – 2013 (All OC Beaches)



Newport Beach

Sampling Agency: Orange County Sanitation District

Sampling Frequency: 5 samples per week

Sampling Locations: Orange St., 52nd/53rd St., 38th St., 15th/16th St. Balboa Pier, The Wedge, Corona Del Mar State Beach, Little Corona

Beach Miles: 7.0 miles of open coastal beach

AB 411 Period (April 1 - October 31)

| Year | Postings | Days | Beach Mile Days |
|------|----------|------|-----------------|
| 2000 | 8 | 18 | 2.2 |
| 2001 | 8 | 13 | 0.7 |
| 2002 | 10 | 17 | 1.2 |
| 2003 | 14 | 23 | 1.4 |
| 2004 | 12 | 18 | 1.2 |
| 2005 | 6 | 21 | 6.0 |
| 2006 | 6 | 10 | 1.9 |
| 2007 | 8 | 10 | 0.6 |
| 2008 | 6 | 11 | 0.6 |
| 2009 | 3 | 10 | 0.6 |
| 2010 | 11 | 11 | 0.7 |
| 2011 | 7 | 8 | 0.5 |
| 2012 | 6 | 10 | 0.6 |
| 2013 | 4 | 11 | 0.6 |

Newport Bay

Sampling Agency: HCA Environmental Health
 Sampling Frequency: 1 sample per week
 Number of Sampling Locations: 31
 Beach Miles: 39.5 miles of bay frontage

AB 411 Period (April 1 - October 31)

| Year | Postings | Days | Beach Mile Days |
|------|----------|------|-----------------|
| 2000 | 56 | 929 | 32.0 |
| 2001 | 68 | 931 | 39.0 |
| 2002 | 43 | 905 | 35.6 |
| 2003 | 40 | 730 | 32.3 |
| 2004 | 31 | 768 | 31.5 |
| 2005 | 21 | 719 | 28.8 |
| 2006 | 30 | 492 | 26.7 |
| 2007 | 18 | 471 | 25.0 |
| 2008 | 15 | 246 | 13.2 |
| 2009 | 19 | 266 | 13.3 |
| 2010 | 18 | 307 | 14.2 |
| 2011 | 25 | 267 | 14.5 |
| 2012 | 22 | 263 | 13.9 |
| 2013 | 19 | 249 | 13.2 |



9

Heal The Bay: 2013 – 2014 Annual Beach Report Card

- 99% of OC beaches received "A" or "B" grades (dry weather).
 - CA statewide average = 91%
- 11 "Honor Roll" Beaches in Orange County.
 - One "A+" in Newport Beach for all seasons
 - The Wedge
 - Two new "Honor Roll" beaches in Newport Beach
 - Park Avenue Beach in Newport Bay.
 - Rocky Point Beach in Newport Bay.

NRDC: 2014 Testing the Waters

- CA – Newport Beach's 38th Street Beach rated Superstar
- One of 35 Superstar Beaches nationwide using unofficial EPA BAV criteria.



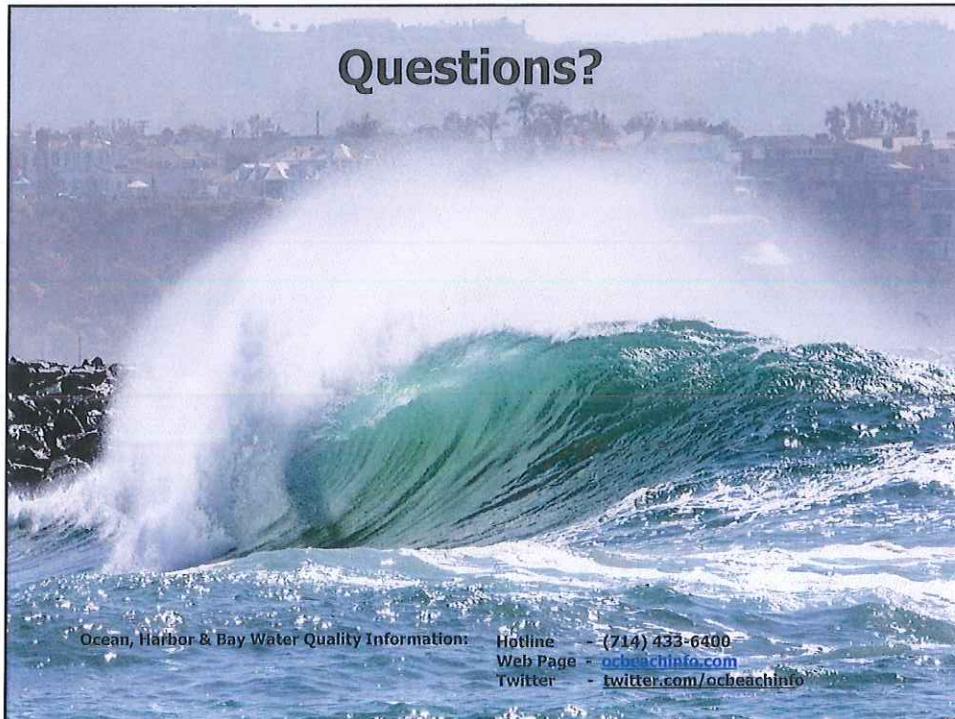
10

Current Issues

- AB 411
 - Collaborative Regional Monitoring Program (SDRWQCB)
 - CBI Grants
- EPA
 - Beach Action Values/Beach Act Funding
 - Enterococcus
- SWRCB
 - Predictive Models
 - Ocean Plan vs EPA Criteria vs AB 411
 - AB 411 definition evaluation of all California beaches
- SCCWRP Studies
 - San Diego Wet Weather Epidemiology Study



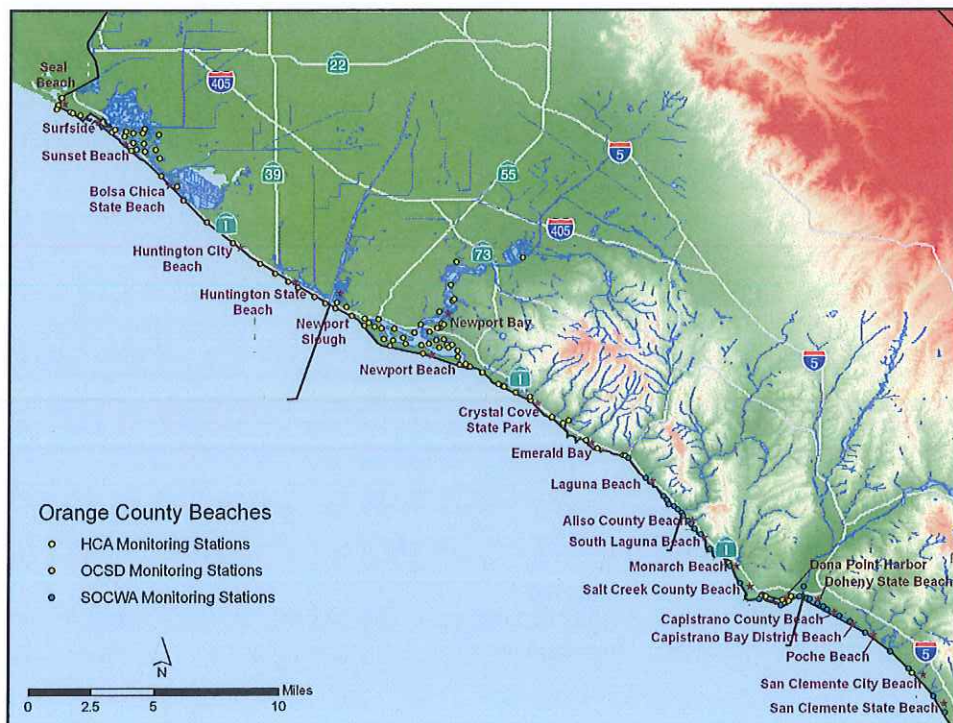
Questions?



Ocean, Harbor & Bay Water Quality Information:

Hotline - (714) 433-6400
Web Page - ocheachinfo.com
Twitter - twitter.com/ocheachinfo

AB 411 Ocean & Bay Monitoring Program



Beach Mile Days (BMD)

(Miles of Beach Posted) X (Number of Days) = Beach Mile Days.

Example:

½ mile of beach is posted for a 4 day period

(0.5 miles) x (4 days) = 2.0 Beach Mile Days (BMD)



AB 411 Period (April 1 – October 31) Postings for all Orange County Ocean and Bay Water Areas 2000 – 2013

| Year | Postings | Days | Beach Mile Days |
|------|----------|-------|-----------------|
| 2000 | 199 | 2,123 | 362.8 |
| 2001 | 208 | 2,454 | 282.4 |
| 2002 | 308 | 2,456 | 366.0 |
| 2003 | 160 | 1,732 | 247.5 |
| 2004 | 141 | 1,877 | 196.8 |
| 2005 | 102 | 1,512 | 197.6 |
| 2006 | 183 | 1,381 | 177.4 |
| 2007 | 116 | 1,037 | 139.0 |
| 2008 | 121 | 875 | 132.2 |
| 2009 | 109 | 791 | 135.6 |
| 2010 | 102 | 843 | 87.6 |
| 2011 | 114 | 855 | 164.4 |
| 2012 | 117 | 1008 | 165.4 |
| 2013 | 87 | 267 | 26.1 |

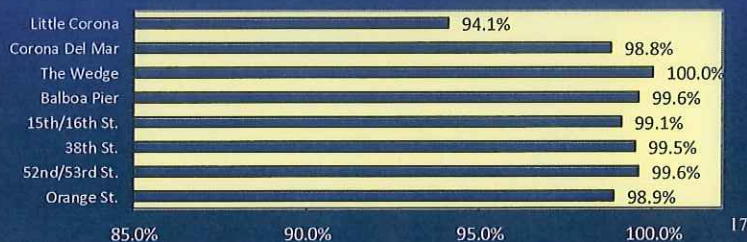


Newport Beach

Number of Beach Mile Days Posted
2000 – 2013 (April 1 – October 31)



Sampling Station Compliance with AB 411 Standards
2005 – 2013 (April 1 – October 31)



Newport Bay

Number of Beach Mile Days Posted
2000 – 2013 (April 1 – October 31)



Newport Slough

Sampling Agency: HCA Environmental Health

Sampling Frequency: 1 sample per week

Sampling Locations: Lancaster Street at 61st Street, Lancaster Street at Canal Street

Beach Miles: 0.1 miles of bay frontage

AB411 Period (April 1 - October 31)

| Year | Postings | Days | Beach Mile Days |
|------|----------|------|-----------------|
| 2000 | n/a | n/a | n/a |
| 2001 | 6 | 324 | 3.5 |
| 2002 | 5 | 181 | 2.1 |
| 2003 | 6 | 111 | 1.4 |
| 2004 | 3 | 96 | 1.1 |
| 2005 | 2 | 15 | 0.2 |
| 2006 | 10 | 61 | 0.7 |
| 2007 | 1 | 2 | 0.1 |
| 2008 | 4 | 13 | 0.1 |
| 2009 | 3 | 6 | 0.1 |
| 2010 | 2 | 6 | 0.1 |
| 2012 | 3 | 12 | 0.1 |
| 2013 | 1 | 2 | 0.1 |



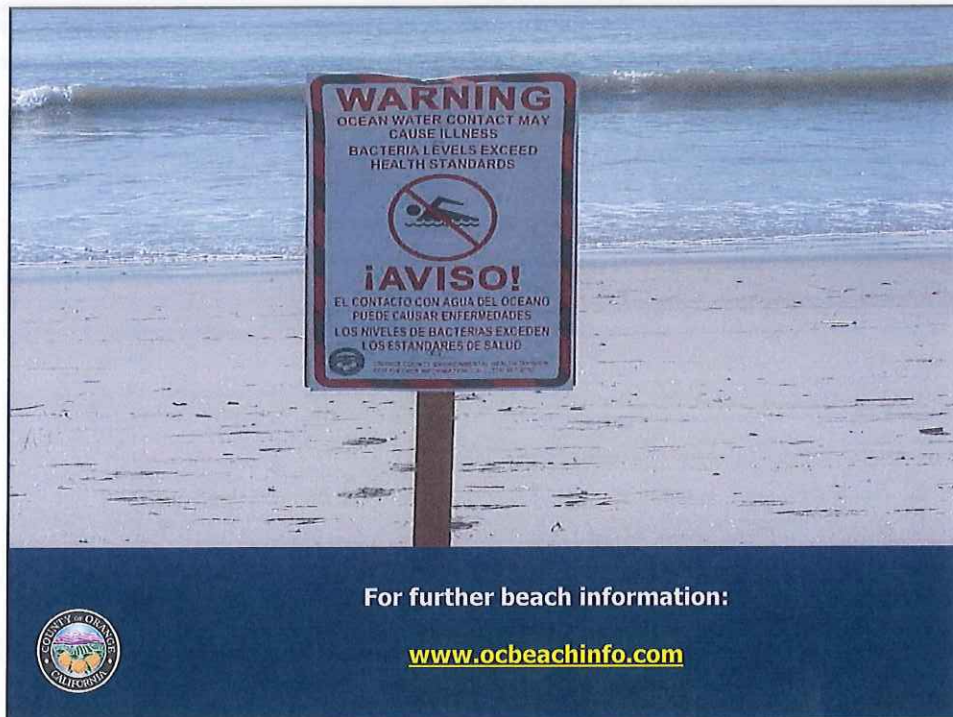
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Newport Slough

Number of Beach Mile Days Posted
2000 – 2013 (April 1 – October 31)



20



Thursday, August 21, 2014
7:55 AM



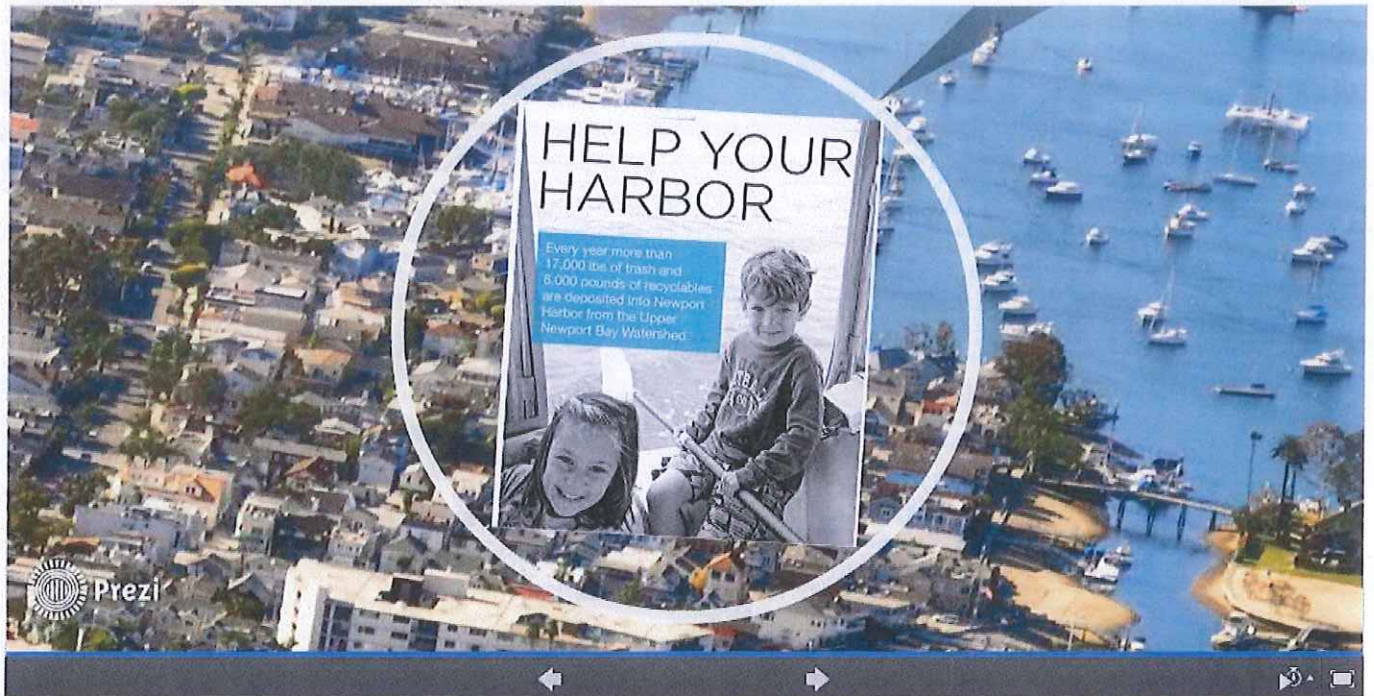
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Our goal is simple. To make a difference to our harbor community and the world.

- ✓ **Clean the Harbor - Getting out on the water and making the harbor a cleaner place, one scoop at a time!**
- ✓ **Collect important data to share with institutions and agencies addressing "prevention" efforts.**
- ✓ **Build awareness by creating a community around a common goal.**

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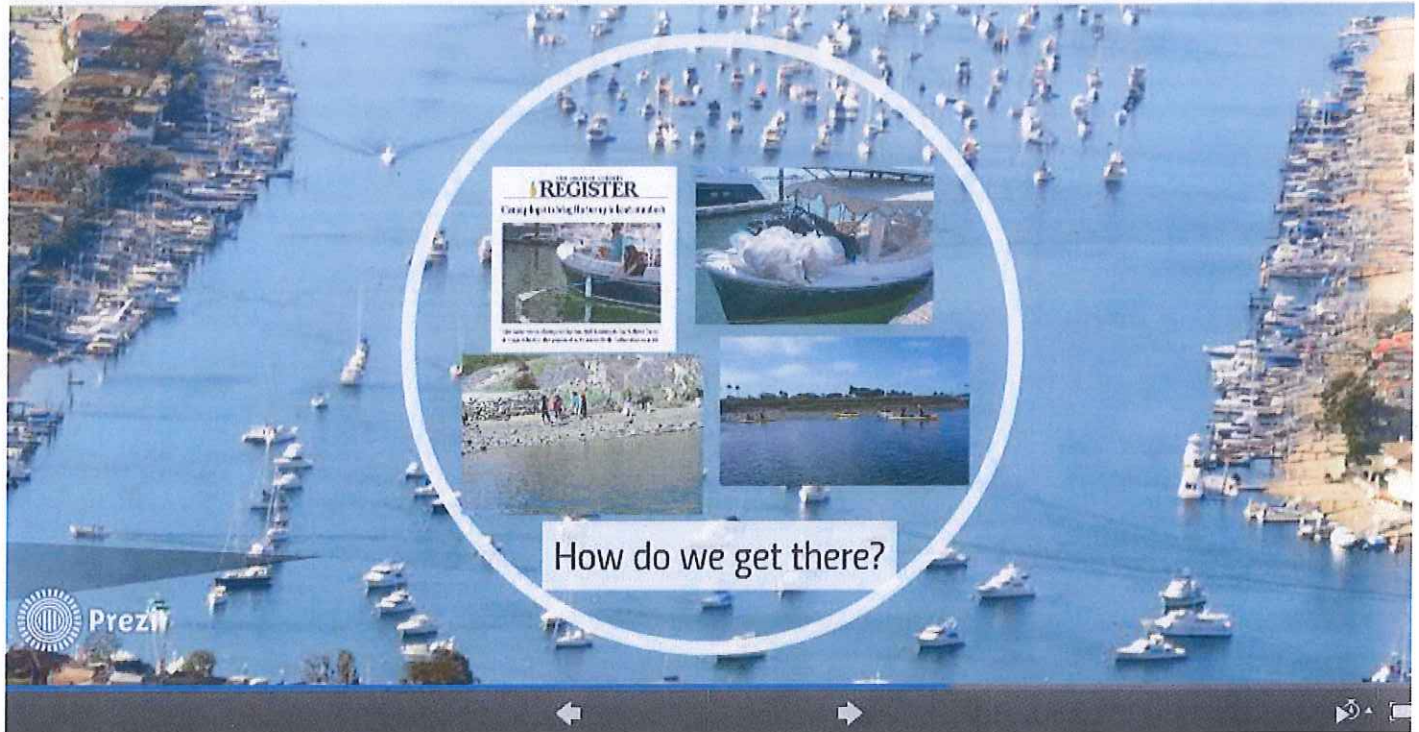
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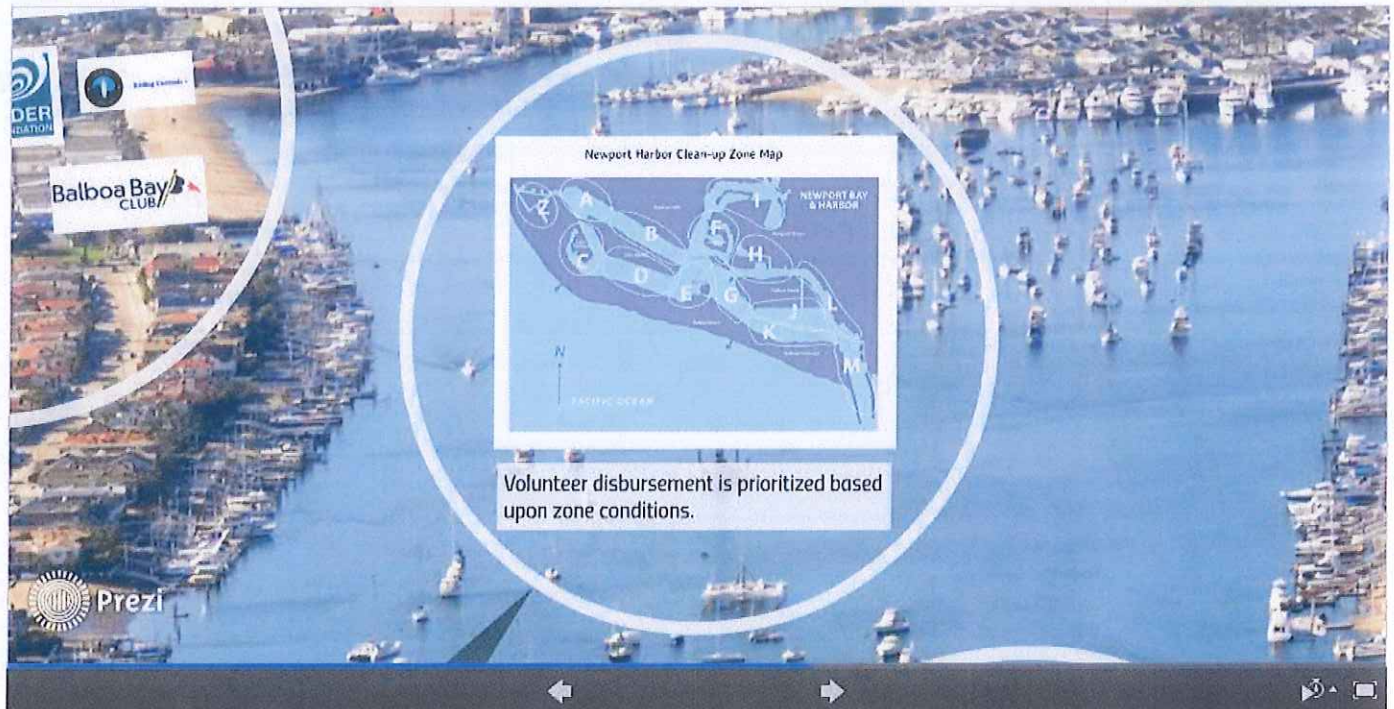
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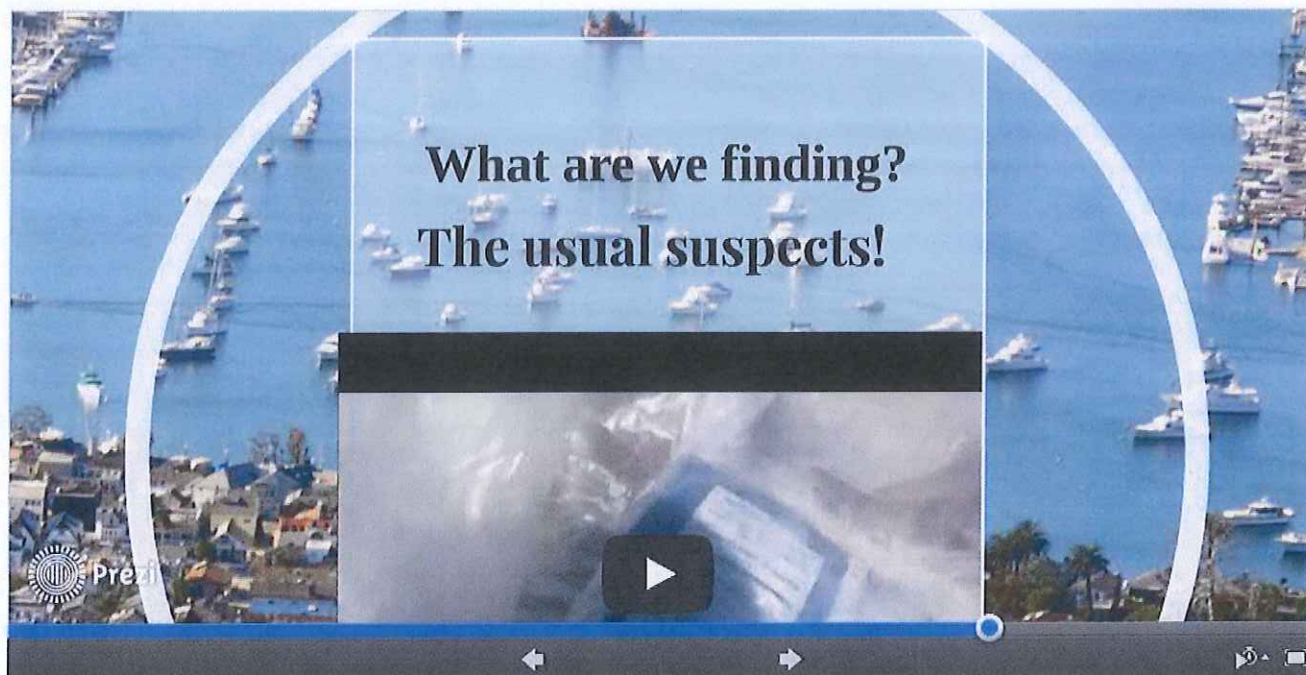
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Surfrider Foundation
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Taking OFG To The Streets: Parkway Curb Cut & Bio-Swale

October 11 2012 | [Ocean Friendly Gardens, HOW](#),
by Paul Herzog

Turning every landscape into an Ocean Friendly Garden is great, but there's still a large amount of polluted water that can run off streets and into gutters and storm drains. **Dan Long**, whose Ventura, CA OFG retrofit has been [blogged about](#), was ready to cut the curb between his parkway and the street and install a **bio-swale** to capture, filter and absorb that runoff (the parkway is the landscaped strip that sits between the street and sidewalk). The timing was perfect: do a Hands-On Workshop as part of Surfrider's West Coast Summit so that chapters could take part and bring back home what they learned.



This idea was new to the City of Ventura. The city did not have a process for pulling a permit for cutting the curb, nor did they have a standard curb cutting design. OFG Program partners **G3/The Green Gardens Group** provided pro bono design services to create a standard design. The City welcomed the idea that, if the design worked well, a property owner could pull a permit at no cost as long as they followed the design and used a licensed contractor to cut the curb.

G3's Managing Member, **Pamela Berstler**, led the G3 team and volunteers through cutting the the majority of the curb and all the bio-swale excavation from 10am-2pm, while Sufrider activists were sharing best practices at their Summit. Dan's friend, **Jeff Zimmerman** (pictured at the top, right), owner of the green building company **Z Dwellings**, brought his concrete cutting and cut the curbs for free - and in exchange for some good PR. (Click [here](#) to watch a video coverage of the curb being cut and the curb capturing runoff.) Dan had worked with **G3's Kate Riley** to mark the curbs ahead of time, and had already called Dig-Alert to mark the location of utility lines.

G3's research of other curb cut and bio-swale designs from around the county revealed that an open cut at a 45 degree angle would work best for water to flow in and keep debris from clogging the entry. Dan (above, left) used a chisel to ensure a smooth drop from the street into the bio-swales debris catch basin. When activists arrived at 2:30pm, Pamela (at right) explained about the standard design, the collaboration between partners and what had gone on earlier in the day.



The design centered around creating large basins at the curb cut inlets. The debris catch basin can be seen right in front of Pamela (at right): the gravel just after the curb cut slows down the incoming water and lets debris like sediment from soil, car exhaust and pet waste settle out and sink.

The basins were connected by a swale that allows water to flow in and flow out. **Tom Rau** (at left), with G3 and the West LA/Malibu OFG Sub-Committee, works to reinforce the sides of the basin. Ideas for the basins came from fellow NGOs like **Watershed Management Group** and activists like **Brad**

Landcaster.

Surfrider activists like **Rob Nieto** (at left, in white tanktop) from Surfrider-San Luis Obispo, CA got to work, installing plants and laying down mulch. They were joined by the City of Ventura's Water Resources Specialist, **Jill Sarick** (bending down, in white and big hat, and a big thanks to her for get a City van and driving activists to-and-from the Summit and for the great [landscape webpage](#) she created).

The next steps include:

The City returning to the site to study its performance and take steps to formalize the no-cost permit for a standard design;

The Ventura Surfrider Chapter returning to the site to lead Lawn Patrols (neighborhood walks) and garden parties to educate neighbors about going OFG and cutting the curb.



We got some great press coverage. **Kit Stolz** wrote a good [article about the workday](#) for the **Ventura County Star**, and the Star's photographer took some nice pictures. **John Burke**, a landscape architect, wrote a [cool piece](#) for the **Ventura Breeze** (and worked all day at the workday!). Big thanks to Dan Long for his patience and persistence!

[Share Comments](#)

Rooks, Shari

From: Philip Bettencourt <philip@bettencourtplans.com>
Sent: Friday, August 15, 2014 1:10 PM
To: Gardner, Nancy
Cc: Kappeler, John; Klimow, Kate; 'P. Bettencourt'; Rooks, Shari; Henn, Michael
Subject: Water Quality / Coastal Tidelands Committee: UCI resources.

Chair Gardner and colleagues, as I noted at yesterday's committee meeting, UCI has been honored by the Sierra Club as being among the top ten of the "greenest colleges" in the nation (See news extract below.) I thought that perhaps some of the experiences at the university would be of interest to the committee. My **Newport Banning Land Trust** colleague (and fellow board member) **Ms. Kate Klimow** is the assistant vice chancellor for community and government relations at UCI (**949-824-0061**) and may be helpful in identifying UCI resources if you believe that would be of value to the committee.

Thank you so much.

[UCI Statement (partial)] Irvine, Calif., Aug. 12, 2014 — UC Irvine has placed first in Sierra magazine's eighth annual ranking of the country's "Coolest Schools," marking the fifth consecutive year the university has been included among the top 10 "greenest" campuses nationwide. The Sierra Club publication's September/October cover story spotlights what colleges are doing to address climate issues and operate sustainably. It commends UCI for its academic and research achievements in those endeavors; its three on-campus solar projects; and its energy efficiency goals that consistently exceed federal and state guidelines.

The Sierra ranking also acknowledges campuses that encourage environmental responsibility through research and education, student engagement and innovation. The complete list is available at www.sierraclub.org/coolschools. "At our commencement ceremony this year, **President Obama** praised UCI for being 'ahead of the curve' on climate change research, energy efficiency and sustainability," said **Howard Gillman**, interim chancellor and provost. "Sierra magazine's No. 1 ranking is further recognition of our national leadership in these areas.",

Philip Bettencourt

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